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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,222	09/10/2003	Gelu Voicu	CAT-12502-1	7704
22888	7590 11/30/2005	EXAMINER		
BEVER HOFFMAN & HARMS, LLP TRI-VALLEY OFFICE 1432 CONCANNON BLVD., BLDG. G LIVERMORE, CA 94550			LAUTURE, JOSEPH J	
			ART UNIT	PAPER NUMBER
			2819	

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>				
		Application No.	Applicant(s)			
		10/660,222	VOICU ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Joseph Lauture	2819			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)🖂	Responsive to communication(s) filed on 26 Se	eptember 2005.				
- 2a)□	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)🖂	4)⊠ Claim(s) <u>37-113</u> is/are pending in the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	5)⊠ Claim(s) <u>37-77 and 86-113</u> is/are allowed.					
6)⊠	☑ Claim(s) <u>78-82</u> is/are rejected.					
7)⊠	☑ Claim(s) <u>83-85</u> is/are objected to.					
8)□	8) Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)⊠	10)⊠ The drawing(s) filed on <u>10 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
• •			·			
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)					
3) 🛛 Infor	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 32105. 5) Notice of Informal Patent Application (PTO-152) 6) Other:					
rape	. 140(9)/191811 Date <u>32 /03</u> .	٠/ الــا Oulei				

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DETAILED ACTION

Specification

The application has not been checked to the extent necessary to determine the presence of all possible typographical and grammatical errors. Applicant's cooperation is requested in correcting any errors of which he/she may become aware in the application.

The Information Disclosure Statements filed 03/21/2005 have been considered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 78-82 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rivoir et al (US 5,703,588) in view of Dempsey (US 6,414,616).

Rivoir et al teach in figure (6) a circuit having a first reference terminal and a second reference terminal, and a plurality of impedance devices Rc connectable by switches between the first reference and the second reference terminals, and first and second structures (51) and (53), each selectively connected to one of the impedance devices, wherein each impedance device can be bypassed by a switch and each structure can be bypassed by the switches.

Rivoir et al do not specifically teach a circuit wherein a permanently-on switch connects an impedance device to a structure. However, the use of such switching

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devices to control signal flow are well known in the art, as evidenced by Dempsey. Dempsey teaches an architecture for a voltage scaling DAC, wherein a permanently-on switch (See column 5, lines 39-41) connects the end of a ladder network to a circuit component. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Dempsey into the system of Rivoir et al to improve system performance and reliability because that would broaden the range of applications for the circuit (See column 2, lines 39-43).

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Allowable Subject Matter

Claims 83-85 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 37-77 and 86-113 are allowable.

Reasons For Indicating Allowability Of Subject Matter

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fail to teach an N-bit digital potentiometer including 2^N wiper addresses, the potentiometer comprising inter alia first and second bulk impedance devices each of an approximately same impedance greater than an impedance of a first string, wherein the first string, the first bulk impedance device and the second bulk impedance devices are coupled between a first and a second reference terminals.

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CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joseph Lauture, whose telephone number is

(571) 272-1805. The examiner can normally be reached Monday to Friday

between 9:30 am and 6:00 PM

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Rexford Barnie can be reached at (571) 272-7492. The

fax number for the organization to which this application is assigned is (571) 273-

8300.

Information regarding the status of an application may be obtained from

the Patent Application Information Retrieval (PAIR) system. Status information

for published applications may be obtained from either Private PAIR or Public

PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-revenue.com/

direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll

free).

Joseph Lauture Art Unit: 2819

Date: 11/25/2005

LEQUITEANPIERRE
PRIMARY EXAMINER

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